

Proposal Full View

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Applicant Information

 Organization Name *

 Tax ID **956006490**

Proposal Name Rialto Basin Groundwater Model Integration and Enhancement *

Proposal Objective

The primary objective of the Groundwater Model Integration and Enhancement Project is to use the calibrated EPA RCM (CH2MHill, 2012) groundwater model to optimize basin-wide groundwater management within the Rialto-Colton Groundwater Basin (Basin) caused by various remedial actions and the return to service of West Valley Water District Well No. 11 and Rialto Well No. 6. The allocation of groundwater pumped from the Basin during low-water conditions is governed by a stipulated judgment known as the 1961 Rialto Basin Decree. The 1961 Rialto Basin Decree stipulates that parties to the Decree may pump unlimited volumes of groundwater if the average of the spring-high groundwater elevation at three index wells exceeds 1,002.3 feet above mean sea level (MSL). If the index-well average spring-high groundwater elevation falls below 969.7 feet above MSL, each party's entitlement is reduced by 1 percent for every foot the average is below 969.7 feet above MSL. The effects of Basin groundwater production on basin-wide groundwater management will be evaluated by predicting the simulated average spring-high groundwater elevations at the three index wells specified in the 1961 Rialto Basin Decree. Simulation scenarios of future groundwater levels will be defined that incorporate hypothetical climatic and Basin groundwater production variations and groundwater replenishment projects. In achieving the modeling objective, a comprehensive, practical understanding of Basin groundwater mechanics will be developed, in terms of groundwater flow dynamics and hydrologic response. The proposed Project will serve as a tool for Basin stakeholders to evaluate future "what-if" scenarios, which will include potential locations for groundwater replenishment programs. Such programs may be an integral part of balancing the needs of Basin stakeholders under the constraints imposed by the 1961 Rialto Basin Decree. *

Budget

Other Contribution	<input type="text" value="\$0.00"/>
Local Contribution	<input type="text" value="\$0.00"/>
Federal Contribution	<input type="text" value="\$0.00"/>
Inkind Contribution	<input type="text" value="\$0.00"/>
Amount Requested	<input type="text" value="\$229,700.00"/> *
Total Project Cost	<input type="text" value="\$229,700.00"/> *

Geographic Information

 Latitude * DD(+/-) MM SS
 Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification	Estimated center of Rialto Basin	Location	Rialto-Colton Basin, sw San Bernardino County and nw Riverside County, GW Basin 8-2.04
County		San Bernardino *	
Ground Water Basin		Upper Santa Ana Valley-Rialto-Colton	
Hydrologic Region		South Coast	
Watershed	Santa Ana River Watershed		

Legislative Information

Assembly District	52nd Assembly District, 55th Assembly District *
Senate District	21st Senate District, 23rd Senate District *
US Congressional District	District 31 (CA), District 35 (CA) *

Project Information

 Project Name

Implementing Organization	West Valley Water District
Secondary Implementing Organization	N/A
Proposed Start Date	4/1/2013
Proposed End Date	2/28/2014

Project Scope	The proposed project will use the calibrated EPA RCM groundwater model to optimize the basin-wide groundwater management within the Rialto-Colton Groundwater Basin. The scope of work includes: administration, labor compliance, and model design and implementation (Basin Technical Advisory Committee formalization, EPA RCM review, preliminary simulations, remedial systems optimization, future scenarios for Basin operations, and a final report). For details see the Scope of Work (Attachment 5).
Project Description	The U.S. Environmental Protection Agency (USEPA) and its consultant (CH2MHill) have developed a calibrated groundwater flow model (EPA RCM) for the Rialto-Colton Groundwater Basin (Basin). The USEPA is currently using the EPA RCM to design and evaluate the perchlorate and volatile organic compound (VOC) interim source-area groundwater remedy associated with the B.F. Goodrich superfund site (EPA remedy). Two other remedial actions are currently in operation in the Basin. San Bernardino County operates a groundwater treatment system for perchlorate and VOC impacts at Rialto Well No. 3, located at the Rialto Airport. Also, the County of San Bernardino is using Fontana Union Water Company wells as part of a corrective action program that includes groundwater extraction of VOC-contaminated groundwater for contaminants emanating from the footprint of Unit 1 of the County Mid-Valley Sanitary Landfill. The allocation of groundwater pumped from the Basin during low-water conditions is governed by a stipulated judgment known as the 1961 Rialto Basin Decree. The 1961 Rialto Basin Decree stipulates that parties to the Decree may pump unlimited volumes of groundwater if the average of the spring-high groundwater elevation at three index wells exceeds 1,002.3 feet above mean sea level (MSL). If the index-well average spring-high groundwater elevation falls below 969.7 feet above MSL, each party's entitlement is reduced by 1 percent for every foot the average is below 969.7 feet above MSL. Current groundwater elevations in the Basin have resulted in a 19% reduction in groundwater pumping. The forthcoming EPA interim remedy and future return to service of District Well No. 11 and Rialto Well No. 6 as part of a contaminant mass removal effort represent additional groundwater pumping. The proposed Project will use the calibrated EPA RCM to optimize the basin-wide groundwater management within the Basin caused by these remedial actions.
Project Objective	The primary objective of the proposed Project is to use the calibrated EPA RCM to optimize the basin-wide groundwater management within the Rialto-Colton Groundwater Basin. The proposed Project will develop an understanding of: 1) the hydrogeologic interaction of four remedial pumping efforts occurring within the Basin, and 2) the potential options for extracting any additional groundwater within stipulated amounts, as well as strategic replenishment of the Basin through artificial recharge.

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Watershed Protection-Water Quality Improvement	4300	Modeling tool to manage basin inputs and withdrawals
Secondary	Conveyance-Water Supply Enhancement	4300	Modeling tool to manage additional well supply in basin
Tertiary	Conveyance-Water Quality Improvement	4300	Will allow contaminated well supply to be added after modeling completed

Project Objective

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="0"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>
Amount Requested	<input type="text" value="229700"/>
Total Project Cost	<input type="text" value="229700"/>

Geographic Information

Latitude DD(+/-)	<input type="text" value="34"/>	MM <input type="text" value="6"/>	SS <input type="text" value="24"/>
Longitude DD(+/-)	<input type="text" value="117"/>	MM <input type="text" value="22"/>	SS <input type="text" value="5"/>

Longitude/Latitude Estimated center Location Rialto-Colton Basin, sw San Bernardino County
 Clarification
 County San Bernardino Ground Water Basin Upper Santa Ana Valley-Rialto-Colton Hydrologic Region South Coast WaterShed
 Santa Ana River Watershed

Legislative Information

Assembly District	52nd Assembly District, 55th Assembly District
Senate District	21st Senate District, 23rd Senate District
US Congressional District	District 31 (CA), District 35 (CA)

Section : Applicant Information and Question's Tab

APPLICANT INFORMATION AND QUESTION'S TAB

Q1. Applicant Information

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.

West Valley Water District 855 W. Base Line Road Rialto, CA 92377

Q2. Proposal Description:

Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.

The U.S. Environmental Protection Agency (USEPA) and its consultant (CH2MHill) have developed a calibrated groundwater flow model (EPA RCM) for the Rialto-Colton Groundwater Basin (Basin). The USEPA is currently using the EPA RCM to design and evaluate the perchlorate and volatile organic compound (VOC) interim source-area groundwater remedy associated with the B.F. Goodrich superfund site (EPA remedy). Two other remedial actions are currently in operation in the Basin. San Bernardino County operates a groundwater treatment system for perchlorate and VOC impacts at Rialto Well No. 3, located at the

Rialto Airport. Also, the County of San Bernardino is using Fontana Union Water Company wells as part of a corrective action program that includes groundwater extraction of VOC-contaminated groundwater for contaminants emanating from the footprint of Unit 1 of the County Mid-Valley Sanitary Landfill. The proposed Groundwater Model Integration and Enhancement Project will use the calibrated EPA RCM (CH2MHill, 2012) groundwater model to optimize basin-wide groundwater management within the Basin incorporating the various remedial actions described above, as well as the return to service of

West Valley Water District Well No. 11 and Rialto Well No. 6. The Basin does not have an adopted groundwater management plan with specific basin management objectives; however, groundwater within the Rialto-Colton Basin is managed through court adjudications, namely the 1961 Rialto Basin Decree. The State of California recognizes three basic forms of groundwater management: (1) management by local agencies under authority granted in the California

Water Code or other applicable State statutes (e.g., AB3030 Plan), (2) local government groundwater ordinances or joint powers agreements, and (3) court adjudications. The allocation of groundwater pumped from the Basin during low-water conditions is governed by a stipulated judgment known as the 1961 Rialto Basin Decree. The 1961 Rialto Basin Decree stipulates that parties to the Decree may pump unlimited volumes of groundwater if the average of the spring-high groundwater elevation at three index wells exceeds 1,002.3 feet above mean sea level (MSL). If the index-well average spring-high groundwater elevation falls below 969.7 feet above MSL, each party's entitlement is reduced by 1 percent for every foot the average is below 969.7 feet above MSL.

Current groundwater elevations in the Basin have resulted in a 19% reduction in groundwater pumping per the stipulations of the Rialto Basin Decree. The forthcoming EPA interim remedy and future return to service of District Well No. 11 and Rialto Well No. 6 represent additional groundwater pumping. The proposed Project will use the calibrated EPA RCM to optimize basin-wide groundwater management within the Basin. The 1961 Rialto Basin Decree and the Western Judgment manage a narrowly defined set of parameters within the Rialto-Colton Basin, namely the groundwater elevation at three index wells. While these parameters have been effective in helping groundwater users in the Basin manage groundwater extractions from year to year, additional management tools are needed in order to better manage the complex set of issues facing the Basin. The effects of Basin groundwater production on basin-wide groundwater management will be evaluated by predicting the simulated average spring-high groundwater elevations at the three index wells. Simulation scenarios of future groundwater levels will be defined that incorporate hypothetical climatic and Basin groundwater production variations and groundwater replenishment projects. The proposed Project will serve as a tool for Basin stakeholders to evaluate future ?what-if? scenarios, which will include potential locations for groundwater replenishment programs.

Q3. Project Director:

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Mr. Anthony Araiza, General Manager 855 W. Base Line Road Rialto, CA 92377 (909)875-1804 X703 aaraiza@wvwd.org

Q4. Project Manager:

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Mr. Thomas Crowley, Deputy General Manager 855 W. Base Line Road Rialto, CA 92377 (909)875-1804 X702 tcrowley@wvwd.org

Q5. Additional Information:

Based on the region's location, what is the applicable DWR region office (Northern, North Central, South Central, or Southern)? The following link can be used to view each DWR region office boundaries:

http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm

- 1) ☐ Northern Region
- 2) ☐ North Central Region
- 3) ☐ South Central Region
- 4) ☒ Southern Region

Q6. Additional Information:

Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.

The Rialto-Colton Basin was adjudicated in the Lytle Creek Water & Improvement Company vs. Fontana Ranchos Water Company, et. al., San Bernardino County Superior Court Action 81264, entered on December 22, 1961. As a result, the Fontana Union Water Company (FWC), City of Rialto, City of Colton, and West Valley Water District are subject to the Rialto Basin Decree. Entitlement extractions for any given water year (October 1 to September 30) are affected by groundwater elevations between March and May for three specific index wells (Duncan Well, Willow Street Well, and Boyd Well). Under specified conditions, extractions may be limited during certain months. The Western Judgment (filed simultaneously with the Orange County Judgment in April 17, 1969) requires San Bernardino Valley Municipal Water District (Valley District) to maintain the average lowest static water levels in three index wells in the Colton Basin Area and Riverside North Basins above 822.04 feet msl.

Q7. Additional Information:

Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).

1. 2010 San Bernardino Valley Regional Urban Water Management Plan (June 2011) 2. Upper Santa Ana River Watershed Integrated Regional Water Management Plan (November 2007) 3. The Rialto Decree (Lytle Creek Water & Improvement Company vs. Fontana Ranchos Water Company, et. al., filed under the San Bernardino County Superior Court Action 81264, entered on December 22, 1961) 4. The Western Judgment (Western Municipal Water District of Riverside County v. East San Bernardino County Water District, filed under the Riverside County Superior Court Case No. 78426 on April 17, 1969) 5. The Orange County Judgment (Orange County Water District v. City of Chino et al., filed under the Orange County Superior Court Case No. 117628 on April 17, 1969)

Q8. Additional Information

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

No Other Contributions.

Q9. Eligibility:

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

West Valley Water District Linda Jadeski, Water Resource Analyst (909)875-1804 X352 ljadeski@wvwd.org

Q10. Eligibility:

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

The West Valley Water District is one of eight water agencies included in the 2010 San Bernardino Valley Regional Urban Water Management Plan (RUWMP), submitted to DWR on July 14, 2011. DWR reviewed West Valley's portion of the 2010 RUWMP and found that it addressed the requirements of the California Water Code, as evidenced by a letter dated December 16, 2011.

Q11. Completeness Check:

Have all of the fields in the application been completed?

Yes

Q.11. Completeness Check (cont)

If no, please explain. If yes, answer this question with "NA".

NA

Section : Application Attachments Tab**APPLICATION ATTACHMENTS TAB****Attachment 1. Authorizing Documentation**

Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att1_LGA12_WestValleyWD_AuthDoc1of1.pdf

Attachment 2. Eligible Applicant Documentation

Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att2_LGA12_WestValleyWD_EligDoc_1of2.pdf,Att2_LGA12_WestValleyWD_EligDoc_2of2.pdf

Attachment 3. Status of GWMP

Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att3_LGA12_WestValleyWD_GWMP_1of2.pdf,Att3_LGA12_WestValleyWD_GWMP_2of2.pdf

Attachment 4. Project Description

Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att4_LGA12_WestValleyWD_ProjD_1of1.pdf

Attachment 5. Work Plan

Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att5_LGA12_WestValleyWD_WrkPln_1of2.pdf,Att5_LGA12_WestValleyWD_WrkPln_2of2.pdf

Attachment 6. Budget

Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att6_LGA12_WestValleyWD_BUDGET_1of2.pdf,Att6_LGA12_WestValleyWD_BUDGET_2of2.pdf

Attachment 7. Schedule

Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att7_LGA12_WestValleyWD_SCHED_1of2.pdf,Att7_LGA12_WestValleyWD_SCHED_2of2.pdf

Attachment 8. Quality Assurance

Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att8_LGA12_WestValleyWD_QA_1of1.pdf

Attachemnt 9. Past Performance

Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments:

Att9_LGA12_WestValleyWD_PERFORM_1of3.pdf,Att9_LGA12_WestValleyWD_PERFORM_2of3.pdf,Att9_LGA12_WestValleyWD_PERFORM_3of3.pdf

Attachment 10. AB1420 and Water Meter Implementation Compliance

Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att10_LGA12_WestValleyWD_1420_1of1.pdf
